

202

The inputs received indicate the status information of the memory banks and the memory device(s). The status information includes, but is not limited to: whether the bank is idle or will be idle when the command is received by the controller, which banks have a request for a write command, which banks have a request for a read command, the type of the previous command, which bank was accessed in the previous command, if write commands are still allowed, and if read commands are still allowed

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Selects which banks could receive an optimal read or write command based at least in part on if the bank is currently available (idle) and if the bank currently has a read or write command, respectively

206

Performs a parallel round robin arbitration to determine which bank is optimal for an optimal read command, an optimal write command, a read command, and a write command